

What is claimed is:

1. A radio telephone system, in which a plurality of slave telephone sets is connected to a public telephone network through radio communication with a master telephone set, wherein:

a plurality of unit IDs are preliminarily registered in each of the slave telephone sets, and the plurality of unit IDs are also registered in the master telephone set.

2. A radio telephone system, in which a plurality of slave telephone sets is connected to a public telephone network through radio communication with a master telephone set, wherein:

a plurality of unit IDs are preliminarily registered in each of the slave telephone sets, and the plurality of unit IDs are also registered in the master telephone set and whenever each slave telephone set makes radio communication with the master telephone set, an unit ID corresponding to the radio communication is selected.

3. The radio communication system according to claim 1 or 2, wherein the plurality of unit IDs registered in each slave telephone set are registered in a plurality of master telephone sets.

4. The radio telephone system according to claim 1 or 2, wherein each slave telephone set is capable of utilizing both analog radio communication and also digital

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communication.

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5. The radio communication system according to claim 1 or 2, wherein the plurality of unit IDs registered in each slave telephone set are registered in a plurality of master telephone sets and each slave telephone set is capable of utilizing both analog radio communication and also digital communication.

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6. A radio telephone system, in which a plurality of slave telephone sets is connected to a public telephone network through radio communication with a master telephone set and a plurality of unit IDs are preliminarily registered in each of the slave telephone sets, and the plurality of unit IDs are also registered in the master telephone set, the system including steps of:

in response to hooked off of a first telephone set connected to the slave telephone set to make a telephone call to the opposite side, transmitting a line connection request signal and selected unit ID among the preliminarily registered unit IDs on a control channel to the master telephone set;

in response to receipt of the line connection request and the unit ID, checking whether the received unit ID is of its own slave telephone set by the master telephone set;

if the unit IDS is identical, finding a vacant communication channel and assigning this vacant

communication channel to the slave telephone set;

in response to the assignment of communication channel, checking whether that communication channel is vacant and, if it is vacant, transmitting a confirmation signal by the slave telephone set; and

in response to receipt of the confirmation signal from the slave unit, executing operation of line connection to the public telephone network by the master telephone set;

7. The radio telephone system according to claim 6, wherein when a second telephone set is hooked off to make a telephone call to the opposite side while the first telephone set is in communication, a line connection request and the unit ID are transmitted on the control channel to the unit ID; and the line connection like for the first telephone set is executed to obtain connection between the second telephone set and the public telephone network line.

8. The radio telephone system according to claim 6, wherein when the second telephone set is hooked <sup>on</sup> ~~off~~ to discontinue its communication in the state that both the first and second telephone sets are in communication, a communication "off" request is transmitted from the second telephone set to the master telephone set; and in response to receipt of the communication "off" signal, the master telephone set transmits a communication

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"off" signal to the second telephone set, thus ending the communication and restore the second telephone set to the stand-by state.

9. The radio telephone system according to claim 6, wherein when the first telephone set is hooked on, a communication "off" request is transmitted from the first telephone set to the master telephone set; and

in response to receipt of the communication "off" request, the master telephone set transmits a communication "off" signal to the first telephone set, thus ending the communication and restore the telephone set to the stand-by state.

10. A radio telephone system, in which a plurality of slave telephone sets is connected to a public telephone network through radio communication with a master telephone set and a plurality of unit IDs are preliminarily registered in each of the slave telephone sets, and the plurality of unit IDs are also registered in a plurality of master telephone set, the system including steps of:

responsive to arrival of a telephone call, informing the call arrival to the slave telephone set and transmitting its unit ID by the master telephone set;

checking whether the two unit IDs are identical and selecting one of the plurality of unit IDs registered if they are identical and transmitting the selected unit ID to the master telephone set by the slave telephone set;

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finding a vacant communication channel for communication and informing the found communication channel to the slave telephone set by the master telephone set;

checking whether the received communication channel is vacant and if it is vacant, transmitting a confirmation signal by the slave telephone set; and

sending out via the communication channel an instruction to ring the bell to the slave telephone set when state ready for communication is brought about.

11. The radio telephone system according to claim 10, wherein the master telephone set sends out via the communication channel an instruction to ring the bell to the slave telephone set.